

## Search Plan and Results

### Question

[What is the relationship between alcohol intake and coronary heart disease? \(DGAC 2010\)](#)

### Date Searched

06/08/09

### Inclusion Criteria

- January 1, 1995 through June 8, 2009
- Systematic reviews/meta-analyses only
- Human subjects
- English language
- International
- *Sample size:* Minimum of 10 subjects per study arm; preference for larger sizes, if available
- *Dropout rate:* Less than 20%; preference for smaller dropout rates
- *Ages:* Adults of legal drinking age (21 years and older)
- *Populations:* Healthy, those with elevated chronic disease risk, those diagnosed with the highly prevalent chronic diseases (CHD/CVD, hypertension, Type 2 diabetes, osteoporosis, osteopenia and obesity) and those with breast cancer, colon cancer and/or prostate cancer.

### Exclusion Criteria

- Medical treatment/therapy
- Diseased subjects (exceptions noted)
- Hospitalized patients
- Malnourished/third-world populations or disease incidence not relative to US population (e.g., malaria)
- Animal studies
- In vitro studies
- Articles not peer reviewed (websites, magazine articles, Federal reports, etc.)
- Cross-sectional study design.

### Search Terms: Search Vocabulary

"Cardiovascular Diseases"[Mesh] OR "Heart Diseases"[Mesh] OR "Stroke"[Mesh]  
AND("Ethanol"[Mesh] OR "Alcohol Drinking"[mesh] OR "Alcoholic Beverages"[Mesh]) "Stroke"[Mesh] AND ("Ethanol"[Mesh] OR "Alcohol

Drinking"[mesh] OR "Alcoholic Beverages"[Mesh])

Electronic Databases

**Total hits from all electronic database searches: 100**

**Total articles identified to review from electronic databases: 23**

Articles Identified Via Handsearch or Other Means

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Summary of Articles Identified to Review

**Number of Primary Articles Identified: 0**

**Number of Review Articles Identified: 6**

**Total Number of Articles Identified: 6**

**Number of Articles Reviewed but Excluded: 17**

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List of Articles Included for Evidence Analysis

Bagnardi V, Zatonski W, Scotti L, La Vecchia C, Corrao G. [Does drinking pattern modify the effect of alcohol on the risk of coronary heart disease? Evidence from a meta-analysis.](#) *J Epidemiol Community Health.* 2008 Jul; 62 (7): 615-619. PMID: 18559444.

Britton A, McKee M. [The relation between alcohol and cardiovascular disease in Eastern Europe: Explaining the paradox.](#) *J Epidemiol Community Health.* 2000 May; 54 (5): 328-332. Review. PMID: 10814651.

Cleophas TJ. [Wine, beer and spirits and the risk of myocardial infarction: A systematic review.](#) *Biomed Pharmacother.* 1999 Oct; 53 (9): 417-423. Review. PMID: 10554677.

Corrao G, Rubbiati L, Bagnardi V, Zambon A, Poikolainen K. [Alcohol and coronary heart disease: A meta-analysis.](#) *Addiction.* 2000 Oct; 95 (10): 1, 505-1, 523. PMID: 11070527.

Di Castelnuovo A, Rotondo S, Iacoviello L, Donati MB, De Gaetano G. [Meta-analysis of wine and beer consumption in relation to vascular risk.](#) *Circulation.* 2002 Jun 18; 105 (24): 2, 836-2, 844. PMID: 12070110.

Rimm EB, Williams P, Fosher K, Criqui M, Stampfer MJ. [Moderate alcohol intake and lower risk of coronary heart disease: Meta-analysis of effects on lipids and haemostatic factors.](#) *BMJ.* 1999 Dec 11; 319 (7224): 1, 523-1, 528. PMID: 10591709; PMCID: PMC28294.

## List of Excluded Articles with Reason

Article	Reason for Exclusion
Barnett AG, Dobson AJ. <a href="#">Excess in cardiovascular events on Mondays: A meta-analysis and prospective study</a> . <i>J Epidemiol Community Health</i> . 2005 Feb; 59 (2): 109-114. Review. PMID: 15650141; PMCID: PMC1733011.	Examines cardiovascular events on Mondays, not alcohol and incident CVD/CHD.
Chatfield J; Stroke Council of the American Heart Association. <a href="#">American Heart Association scientific statement on the primary prevention of ischemic stroke</a> . <i>Am Fam Physician</i> . 2001 Aug 1; 64 (3): 513-514. PMID: 11515840.	Does not specifically answer question related to alcohol intake and CVD/CHD.
Chen L, Davey Smith G, Harbord RM, Lewis SJ. <a href="#">Alcohol intake and blood pressure: A systematic review implementing a Mendelian randomization approach</a> . <i>PLoS Med</i> . 2008 Mar 4; 5 (3): e52. Review. PMID: 18318597; PMCID: PMC2265305.	Does not specifically answer question of CVD/CHD. Focus is blood pressure.
Daniel S, Bereczki D. <a href="#">Alcohol as a risk factor for hemorrhagic stroke</a> . <i>Ideggyogy Sz</i> . 2004 Jul 20; 57 (7-8): 247-256. Review. PMID: 15330400.	Does not directly answer question related to CVD/CHD. Focus is hemorrhagic stroke.
Djoussé L, Gaziano JM. <a href="#">Alcohol consumption and heart failure: A systematic review</a> . <i>Curr Atheroscler Rep</i> . 2008 Apr; 10 (2): 117-120. Review. PMID: 18417065; PMCID: PMC2365733	Narrative review.
Hillbom M, Juvela S, Numminen H. <a href="#">Alcohol intake and the risk of stroke</a> . <i>J Cardiovasc Risk</i> . 1999 Aug; 6 (4): 223-228. Review. PMID: 10501273.	Does not directly answer question related to CVD/CHD. Focus is stroke.
de Gaetano G, Di Castelnuovo A, Rotondo S, Iacoviello L, Donati MB. <a href="#">A meta-analysis of studies on wine and beer and cardiovascular disease</a> . <i>Pathophysiol Haemost Thromb</i> . 2002 Sep-Dec; 32(5-6): 353-355. PMID: 13679674.	Reports on same meta-analysis as the included Di Castelnuovo, et al, 2002.
Grønbæk M. <a href="#">Type of alcohol and mortality from cardiovascular disease</a> . <i>Food Chem Toxicol</i> . 1999 Sep-Oct; 37 (9-10): 921-924. PMID: 10541445.	Narrative review.
Howard AA, Arnsten JH, Gourevitch MN. <a href="#">Effect of alcohol consumption on diabetes mellitus: A systematic review</a> . <i>Ann Intern Med</i> . 2004 Feb 3; 140 (3): 211-219. PMID: 14757619.	Does not directly answer question related to CVD/CHD. The focus is diabetes.
Koppes LL, Dekker JM, Hendriks HF, Bouter LM, Heine RJ. <a href="#">Exploring the relationship between alcohol consumption and non-fatal or fatal stroke: A systematic review</a> . <i>Diabetologia</i> . 2006 Apr; 49 (4): 648-652. Epub 2006 Feb 4. PMID: 16463045.	Does not directly answer question related to CVD/CHD. Focus is stroke.
<a href="#">Marmot MG. Alcohol and coronary heart disease</a> . <i>Int J Epidemiol</i> . 2001 Aug; 30 (4): 724-729. PMID: 11511592.	Narrative review.
<a href="#">Mazzaglia G, Britton AR, Altmann DR, Chenet L. Exploring the relationship between alcohol consumption and non-fatal or fatal stroke: A systematic review</a> . Dec; 96 (12): 1, 743-1, 756. Review. PMID: 11784467.	Does not directly answer question related to CVD/CHD. Focus is stroke.

Mukamal KJ, Rimm EB. <a href="#">Alcohol's effects on the risk for coronary heart disease</a> . <i>Alcohol Res Health</i> . 2001; 25 (4): 255-261. Review. PMID: 11910702.	Narrative review.
Mukamal KJ. <a href="#">Alcohol use and prognosis in patients with coronary heart disease</a> . <i>Prev Cardiol</i> . 2003 Spring; 6 (2): 93-98. Review. PMID: 12732795.	Met excluded criteria: Subjects diagnosed with CHD.
Reynolds K, Lewis B, Nolen JD, Kinney GL, Sathya B, He J. <a href="#">Alcohol consumption and risk of stroke: A meta-analysis</a> . <i>JAMA</i> . 2003 Feb 5; 289 (5): 579-588. Erratum in: <i>JAMA</i> . 2003 Jun 4; 289 (21): 2, 798. Lewis, Brian L [corrected to Lewis, Brian]. PMID: 12578491.	Does not directly answer question related to CVD/CHD. Focus is stroke.
Rotondo S, Di Castelnuovo A, de Gaetano G. <a href="#">The relationship between wine consumption and cardiovascular risk: From epidemiological evidence to biological plausibility</a> . <i>Ital Heart J</i> . 2001 Jan; 2 (1): 1-8. Review. PMID: 11214695.	Narrative review.
Xin X, He J, Frontini MG, Ogden LG, Motsamai OI, Whelton PK. <a href="#">Effects of Alcohol Reduction on Blood Pressure: A meta-analysis of randomized controlled trials</a> . <i>Hypertension</i> . 2001 Nov; 38 (5): 1, 112-1, 117.	Does not directly answer question related to CVD/CHD.